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Plexiglas® Acrylic Molding Resin

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Typical Physical Properties PLEXIGLAS DR-101 Acrylic Resin

| PROPERTIES | VALUE | TEST METHOD |
|------------------------------------|--------------------|---------------|
| PHYSICAL | | |
| Melt Flow Rate (230°C / 3.8 kg) | 1.0 g / 10 min | ASTM D1238 |
| Specific Gravity | 1.15 | ASTM D792 |
| Mold Shrinkage | 0.3-0.8 % | ASTM D955 |
| Water Absorption | 0.4 % weight gain | ASTM D570 |
| MECHANICAL | | |
| Tensile Strength @ Maximum | 5500 psi | ASTM D638 |
| Tensile Elongation @ Break | 50.0 % | ASTM D638 |
| Tensile Modulus | 270000 psi | ASTM D638 |
| Flexural Strength, maximum | 10300 psi | ASTM D790 |
| Flexural Modulus | 270000 psi | ASTM D790 |
| Notched Izod (73°F/23°C) | 1.1 ft-lb/in notch | ASTM D256 |
| Rockwell Hardness | 45 M | ASTM D785 |
| THERMAL | | |
| HDT (455 kPa ; annealed) | 192 °F | ASTM D648 |
| HDT (1820 kPa ; annealed) | 175 °F | ASTM D648 |

| | | |
|---------------------------------------|-----------------------------------|------------|
| Vicat Softening Point (Rate A ; 1 kg) | 208 °F | ASTM D1525 |
| Vicat Softening Point (Rate A ; 5 kg) | 187 °F | ASTM D1525 |
| Thermal Conductivity | 1.50 BTU/hr*ft ² *F/in | ASTM C177 |

OPTICAL

| | | |
|--------------------------------------------|------|------------|
| Refractive Index (N _D @ 73°F) | 1.49 | ASTM D542 |
| Luminous Transmittance (0.125 in./3.2 mm.) | 91 % | ASTM D1003 |
| Haze (0.125 in./3.2 mm.) | <3 % | ASTM D1003 |

| | | |
|---------------------|-------------|-----------|
| ASTM Classification | PMMA 0231V1 | ASTM D788 |
|---------------------|-------------|-----------|

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